

SUBCOMMITTEE ON MATERIALS

2017 Annual Meeting – Phoenix, AZ

Tuesday, August 8, 2017

3:15 p.m. – 5:00 p.m. MST

TECHNICAL SECTION 4e

Joists, Bearings, and Geosynthetics

Minutes

I. Call to Order and Opening Remarks

- A. Brief summary of activities *(to ensure all attendees up to speed)*. See the [TS-4e Annual Meeting Agenda](#).

II. Roll Call

Voting Members (attendees and proxies are noted as present).

Name/Members	Agency		Present
Ramirez, Timothy (Chair)	PA	tramirez@pa.gov	X
Benson, Michael (Vice Chair)	AR	michael.benson@arkansashighways.com	
Lauzon, Robert G.	CT	robert.lauzon@ct.gov	
Douds, Richard	GA	rdouds@dot.ga.gov	X
Trepanier, Jim	IL	james.trepanier@illinois.gov	X
Davis, Jason	LA	Jason.davis@la.gov	
Hood, Woodrow L.	MD	whood@sha.state.md.us	X
Williams, James A.	MS	jwilliams@mdot.state.ms.us	X
Trautman, Brett	MO	brett.trautman@modot.mo.gov	X
Strizich, Matt	MT	mstrizich@mt.gov	
Streeter, Donald	NY	donald.streeter@dot.ny.gov	
Peoples, Christopher	NC	cpeoples@ncdot.gov	X
Seward, Kenny R.	OK	kseward@odot.org	
Lane, Becca	ON	Becca.Lane@ontario.ca	X
Lane, Danny	TN	danny.lane@tn.gov	X
Williams, Kurt	WA	willikr@wsdot.wa.gov	

Non-Voting Members and Friends present:

Name/Friends/Guests	Affiliation		Present
Knake, Maria	AASHTO re:source	mknake@ashtoreource.org	
Voth, Michael D.	FHWA	michael.voth@dot.gov	X
Curry, Jonathan	Industrial Fabrics Assoc. International	jicurry@ifai.com	X
Boardman, Jonathan T.	CT	jonathan.boardman@ct.gov	
Holt, Anne	ON	anne.holt@ontario.ca	X
Schell, Hanna	ON	Hannah.Schell@ontario.ca	
Watson, Ronald	RJ Watson, Inc.	rwatson@rjwatson.com	
Allen, Tony	WA	allent@wsdot.wa.gov	
Rothblatt, Evan	AASHTO	erothblatt@ashto.org	X

Geary, Georgene	GGfGA Engineering, LLC	ggeary@ggfga.com	X
Malusky, Kathryn	AASHTO	kmalusky@ashto.org	X
Lenker, Steven	AASHTO re:source	slenker@ashtoresource.org	
Lacinak, Henry	AASHTO	hlacinak@ashto.org	

III. Approval of Technical Section Minutes from Mid-Year Web Meeting

TS-4e Mid-Year Webinar Meeting Minutes from January 20, 2017 (Attachment 1 from 2017 Annual Meeting Agenda). [Motion made by NC, seconded by TN. All were in favor.](#)

IV. Old Business

- A. Review of 2016 SOM Ballot Items (Rolling Ballot 2)
1. Item 4, M 288, Geotextile Specification for Highway Applications.
 - a. Adopted as M 288, Geosynthetic Specification for Highway Applications.
 2. Item 5, MP 25 Performance-Graded Bituminous Sealants.
 - a. Adopted as MP 25, Performance-Graded Hot-Poured Asphalt Crack Sealant.
 - b. Additional technical revisions were received from the researchers during 2016 SOM ballot comment resolution (Attachment 2 from 2017 Annual Meeting Agenda).
 - c. [TS Decision: Motion to move these revisions to concurrent TS and SOM ballot- motion made by TN, seconded by NC. All were in favor.](#)
 3. Item 6, PP xxx, Grading or Verifying the Sealant Grade (SG) of a Hot-Poured Asphalt Crack Sealant.
 - a. Adopted as PP 85-17.
 - b. Additional technical revisions were received from the researchers during 2016 SOM ballot comment resolution (Attachment 3 from 2017 Annual Meeting Agenda).
 - c. [TS Decision: Motion to move these revisions to concurrent TS ballot- motion made by NC and seconded by TN. All were in favor.](#)
 4. Item 7, TP 85, Apparent Viscosity of Hot-Poured Bituminous Crack Sealant Using Brookfield Rotational Viscometer RV Series Instrument.
 - a. Adopted as T 366, Apparent Viscosity of Hot-Poured Asphalt Crack Sealant Using Rotational Viscometer.
 - b. Additional technical revisions were received from the researchers during 2016 SOM ballot comment resolution (Attachment 4 from 2017 Annual Meeting Agenda).
 - c. [TS Decision: Motion to move these revisions to concurrent SOM ballot- motion made by MS and seconded by WV. All were in favor.](#)
 5. Item 8, TP 86, Accelerated Aging of Bituminous Sealants and Fillers Using a Vacuum Oven.
 - a. Adopted as T 367, Accelerated Aging of Hot-Poured Asphalt Crack Sealant Using a Vacuum Oven. [The researchers believe this should be a standard practice. This will need to be a TS ballot in the future.](#)
 6. Item 9, TP 87, Measuring Low-Temperature Flexural Creep Stiffness of Bituminous Sealants and Fillers by Bending Beam Rheometer (BBR).
 - a. Adopted as T 368, Measuring Low-Temperature Flexural Creep Stiffness of Hot-Poured Asphalt Crack Sealant by Bending Beam Rheometer (BBR).
 7. Item 10, TP 88, Evaluation of the Low-Temperature Tensile Property of Bituminous Sealants by Direct Tension Test.
 - a. Adopted as T 369, Evaluation of the Low-Temperature Tensile Property of Hot-Poured Asphalt Crack Sealant by Direct Tension Test.
 8. Item 11, TP 89, Measuring Adhesion of Hot-Poured Crack Sealant Using Direct Adhesion Tester.
 - a. Adopted as T 370, Measuring Adhesion of Hot-Poured Asphalt Crack Sealant Using Direct Adhesion Tester.
 - b. Additional technical revisions were received from the researcher during 2016 SOM ballot comment resolution (Attachment 5a and Attachment 5b from 2017 Annual Meeting Agenda).
 - c. [TS Decision: Motion to move these revisions to concurrent TS and SOM ballot-motion made by NC, seconded by TN. All were in favor.](#)

9. Item 12, TP 90, Measuring Interfacial Fracture Energy of Hot-Poured Crack Sealant Using a Blister Test.
 - a. Adopted as T 371, Measuring Interfacial Fracture Energy of Hot-Poured Asphalt Crack Sealant Using a Blister Test.
 - b. Additional technical revisions were received from the researchers during 2016 SOM ballot comment resolution. Chair proposes a stand-alone TS Ballot since T 371 is not a specific test method included in MP 25, Performance-Graded Hot-Poured Asphalt Crack Sealant.
10. Item 13, TP xxx, Evaluation of the Tracking Resistance of Hot-Poured Asphalt Crack Sealant by Dynamic Shear Rheometer (DSR).
 - a. Adopted as TP 126-17.
 - b. Additional technical revisions were received from the researcher during 2016 SOM ballot comment resolution (Attachment 6 from 2017 Annual Meeting Agenda)
 - c. **TS Decision: Motion to move these revisions to concurrent TS and SOM ballot-motion made by NC, seconded by MD. All were in favor.**

-The previous 10 items were balloted during the 2016 SOM Rolling Ballot 2. The Provisional Standards were adopted as full standards. The new test method designations are listed. There were also some title changes to some of the standards. Various comments were received during the 2016 SOM Rolling Ballot 2. The standards related to JS/CS, researchers from U of IL developed these standards and helped revise these standards. They also helped address the 2016 SOM Rolling Ballot 2 comments. The editorial comments from the 2016 SOM Rolling Ballot 2 were incorporated into the 2017 published versions of the standards.

B. TS Ballots – None.

C. Task Force Reports

1. Joint SOM TS-4e and SCOBS T-2 (Bearings and Expansion Devices) Task Force.
 - a. SOM TS-4e: Michael Benson, Chair (Arkansas), formerly Bob Burnett (New York), and Tim Ramirez (Pennsylvania).
 - b. SCOBS T-2: Carl Puzey, T-2 Vice-Chair (Illinois)
 - c. On-going TF to maintain the bridge bearing materials standards.
 - d. Replacement for Bob Burnett (New York)?
 - e. **Continue Task Force? MS believes we should sunset this task force. NC is in agreement. It will be brought back if and when needed.**
2. Task Force 2006-01 – M 251.
 - a. Michael Benson, Chair (Arkansas), James Williams (Mississippi), and Representative from Bridge Bearing Manufacturers Association.
 - b. Task Force is to address proper testing frequency and to address incorporating realistic English Units in the standard.
 - c. Additional members? Representative from Bridge Bearing Manufacturers Association? NTPEP Liaison?
 - d. **Update on progress? There hasn't been any progress. Is this task force still needed? Replace MS member. Action Item: The NTPEP TC leadership will review the standard and revise the units for the Chair to review. Ensure the AASHTO standard aligns with the NTPEP EBB work plan. This will be completed prior to this TS's next mid-year webinar.**
3. Task Force 2006-03.
 - a. Tim Ramirez, Chair (Pennsylvania), Michael Benson (Arkansas), James Williams (Mississippi), Jonathan Curry (GMA).
 - b. Task Force is to potentially develop a standard for prefabricated geocomposite edge drains and wall drains.
 - c. Additional members?
 - d. **Update on progress. MS suggest the industry assist with putting together a standard of this type because there are a large variety of products of this type. Industry will get something put together prior to the next call. Georgene Geary will help with this effort. The Chair will reach out to their interested states to assist with championing this effort. Jim Goddard would like to be included. The Chair will set up a call to make sure things move forward.**
4. Task Force 2015-01 – M 288.
 - a. Tim Ramirez, Chair (Pennsylvania), James Williams (Mississippi), Tom Burnett (New York), Chris Peoples and Scott Hidden (North Carolina), Tony Allen (Washington State), Jonathan

Curry (GMA), Ken Bedenbaugh (Willacoochie Industrial Fabrics), Mike Clements (Huesker, Inc.), and Jim Goddard (Consultant).

- b. Task Force is continuing work on M 288 to include geogrids for Base Reinforcement and to address comments from the ASTM D35 committee received from Jim Goddard.
- c. **Need to schedule a task force conference call/webex. The Chair will schedule a call to reconvene this task force in the near future. Add Brett Haggerty (TX DOT), Doug and Emanuel to this task force.**

V. New Business

- A. Research Proposals
 - 1. 20-7 RPS- **None**
 - 2. Full NCHRP RPS- **None**
- B. AASHTO Re:source/CCRL - Observations from Assessments? **None**
- C. NCHRP Issues
- D. Correspondence, calls, meetings
 - 1. Call from John Shuler (Virginia), Chair NTPEP Geosynthetics Technical Committee- NTPEP Proposing guidelines for geogrid and high strength fabric for subgrade improvement. They would like to add something for subgrade improvement in M 288. Work on together as a joint Task Force. Draft NTPEP work plan for ballot in November 2017. Follow-up email from John Shuler dated August 3, 2017 (Attachment 7 from 2017 Annual Meeting Agenda).
 - 2. Email from Jim Goddard (Consultant) dated August 2, 2017 with subject “AASHTO M288 Revisions” proposing revisions to include “circular knitted geotextile fabrics” being used as pipe envelopes (Attachment 8 from 2017 Annual Meeting Agenda). **Action Item: MS recommends surveying the states to see if there is a lot of interest in having this TS pursue this.**
 - 3. Email Inquiry on M 230, Expanded and Extruded Foam Board (Polystyrene). Chair and Vice-Chair reviewed and responded to inquiry, but there may need to be revisions to M 230 (Attachment 9 from 2017 Annual Meeting Agenda). **Action Item: The Chair would like the SOM consultants to look into this further. The Chair will also survey the states to see if there is a high level of usage for this product.**
- E. Presentation by Industry/Academia- **None**
- F. Proposed New Standards- **None**
- G. Proposed New Task Forces- **None**
- H. Standards Requiring Reconfirmation (Attachment 10 – Status of Standards from 2017 Annual Meeting Agenda). *See Appendix C for current status of TS-4e Standards.*
 - 1. R 50, Geosynthetic Reinforcement of the Aggregate Base Course of Flexible Pavement Structures.
 - 2. MP 26, Cotton Duck Fabric Bridge Bearings. *Post Annual Meeting, MP 26 was reconfirmed in the TS-4e reconfirmation ballot during ballot year 2016 and published in 2017 as MP 25-15 (2017). Therefore, MP 25 does not need reconfirmed during the 2017 ballot year.*
 - The TS will move ahead with these reconfirmations with the standards as is.
 - For the Hot-Poured Asphalt Crack Sealant related standards, the Vice-Chair and Chair will be stewards for these standards due to their interrelation with one another and due to the frequency of changes and working with the U of IL researchers.
- I. SOM Ballot Items (including any ASTM changes/equivalencies)
 - 1. T 42- Motion for TS recommendation to discontinue this standard and follow the ASTM standard and to move to a SOM Ballot to discontinue standard. Motion made by NC, seconded by TN. All were in favor. *See table below and Appendix D for 2017 TS-4e SOM Ballot Items.*

Item No.	Standard	Revise/Adopt/Discontinue	SOM	Concurrent
1.	MP 25	REVISE		X
2.	PP 85	REVISE		X
3.	T 42	DISCONTINUE	X	
4.	T 366	REVISE		X
5.	T 370	REVISE		X
6.	TP 126	REVISE		X

VI. Open Discussion

NTPEP Updates:

TS	TC	1.) Any “out of the ordinary” items we need to bring to the attention of all the states	2.) Any action items we need to recruit interested state volunteers for	3.) Any big accomplishments that have happened since August 2016
4e	ECP		o Looking for a state member to serve as vice-chair and participate in providing guidance in driving the Erosion Control Products technical committee forward	
4e	REGEO	This is the first year for annual facility audits. Currently the following facilities have been recognized as compliant with the work plan: TAICHUNG , TXGold-Joint Industry Co., LTD. SILVASSA , IN Techfab India Industries Ltd Saint Chamond , , FR The Reinforced Earth Co. Gescher , DE Huesker	none	The following product line has been re-evaluated and is available to state members in DataMine: REGEO-2016-01-017 Stratagrid SG700 REGEO-2016-01-016 Stratagrid SG600 REGEO-2016-01-015 Stratagrid SG550 REGEO-2016-01-014 Stratagrid SG500 REGEO-2016-01-013 Stratagrid SG350 REGEO-2016-01-012 Stratagrid SG200 REGEO-2016-01-011 Stratagrid SG150
4e	GTX	none	Call for any states interest in participating in John Schuler's early October webinar	46 Facility Audits submitted for 2017 located in: US Canada China Greece India Saudi Arabia Taiwan Vietnam

TS	TC	1.) Any “out of the ordinary” items we need to bring to the attention of all the states	2.) Any action items we need to recruit interested state volunteers for	3.) Any big accomplishments that have happened since August 2016
4e	JS CS	Retest Costs and Letters to Manufacturers – cost has been established, letters to be sent shortly after TC review for 2010 (2016) and 2011 (2017) products that are due for re-evaluation	Any states interested in participation during the next conference call	<p>TX test deck – year 1 data collection done and currently being entered into DataMine. The products will include:</p> <p>CS-2016-01-005 Right Pointe # 3405 Regular CS-2016-01-003 Right Pointe # 5078 Class B CS-2016-01-002 QPR QPR NExGEN Hot Applied Crack Sealant Type 1 CS-2016-01-001 Maxwell Products, Inc. Elastoflex 660</p>
4e	EBB	None	None	<ul style="list-style-type: none"> • Performed first EBB audit in May (only one Corrective Action) - Scougal Rubber - McCarran, NV • Working on modified peel test to be added to Work Plan (requested by several states). Will send to SOM committee for review and possible inclusion in specification • Have three other facilities applying for audits (DS Brown - TX, GRT Rubber Technologies - AR, & Tobi Engineering - IL).

VII. Adjourn
Meeting adjourned at 5:00 p.m.